SL No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
147	Providing and fixing circular 8 guage wire net dust bin of diameter 0.60 m with a height of 1.2 m, along with the circular bottom net of 0.6 m dia, including MS flats of 1.2m length and 1 inch width for vertical joint welding, MS flat 1.9m length and 1 inch width for top and bottom edges and MS flat of 2m length and 3/4 inches width for edges of net shutter with latch arrangement having two hinges with a wirenet of size 1 inch x 1 inch fixed in concrete bed, including 2 coats of approved paint over one coat of primer including cost of all materials, transportation, labour, curing complete as per drawing and directions of Engineer-in-charge CE approved Rate								
	Not Operated								
148	Providing and fixing 20 guage M.S. sheet circular dust bin with bottom perforated sheet 450mm dia and 600mm depth, with stands hollow pipes 32mm dia of depth 1.5 m, top cover MS sheet 900x600 mm above the dust bin, horizontal braces 10mm dia bar and revolving system and locking arrangements etc, fixing in concrete bed including 2 coats of approved paint over one coat of primer, including cost of all materials, transportation, labour, curing complete as per drawing and directions of Engineer-in-charge CE approved Rate								
	Not Operated								
149	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P W D BCSR 2014-15, P-12 I-4.2)								
	Not Operated								
150	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2 (P W D BCSR 2014-15, P-16, I-4.32)								
	Not Operated								
151	KSRB 6-2.3 : Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:6 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 (P W D BCSR 2014-15, P-27, I-6.6)								
	Not Operated								
152	KSRB 15.3.4:Providing 15mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P W D BCSR. 2014-15, P-109, I-15.9)								
	Not Operated								
153	KSRB 14.7-1: Providing and laying flooring with M15 cement concrete 40 mm thick using broken granite 20mm and down size laid to line and level in one layer and finish with a floating coat of neat cement , including cost of materials, labour, curing, complete as per specifications. Specification No. KBS 14.3 (P W D BCSR. 2014-15, P-98, I-14.8)								
	Not Operated								

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Sl. No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
154	KSRB 15.12.1 Providing Gopi colour washing to new wall surface in two coats with lime and gopi colour of approved quality, to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and other foreign matter including cost of materials, labour, complete as per specifications. (P W D BCSR. 2014-15, P-112, I-15.44)								
	Not Operated								
155	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12 (P W D BCSR. 2014-15, P-52, I-7.9)								
	Not Operated								
156	Fabrication supplying and erecting M.S. tubular trusses of all spans as per approved drawing & design with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, letc., complete as per specification (P W D BCSR. 2014-15, P-40, I-7.29)								
	Not Operated								
157	KSRB 8.3-2 : Providing and laying to required line and slope roofing with semi-corrugated (Trafford) asbestos cement sheet 6mm. thick fixed with galvanised iron J or L hooks, bolts and nuts 8mm. dia C.I plain and bitumen washers, over the existing purlins, rafters and trusses including cost of materials, labour, complete as per specifications. (P W D BCSR. 2014-15, P-46, I-8.6)								
	Not Operated								
158	KSRB 8.3-4 : Providing and fixing ridges, hips with asbestos cement sheet roofing with G.I. J or L hooks, bolts and nuts 8mm. dia G.I.plain and bitumen washers, serrated or plain wings, adjustable ridges, including cost of materials, labour, complete as per specifications. (P W D BCSR. 2014-15, P-46, I-8.8)								
	Not Operated								
159	Shredder Machine made of Mild steel with electrical motor of 5HP three phase,30 No Flat plates cutters, weight of 400kg,handle all type of dry leaves cut upto 10-20mm length crushing rate depending on the type of material including all service tax and installation excluding Electrification.								
	Not Operated								
160	Chopper Machine made of Mild steel with electrical motor of 5HPthree phase,20No cutting Knives weight of 400kg,handle all type of organic waste like wet,dry vegetables and Biomass,cut upto 50-150cm length crushing rate,depending on the type of material including all service tax and installation excluding Electrification.								
	Not Operated								

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Sl. No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
161	Fabrication, Supplying, Erection,Testing and Commissioning of 16 mtrs long polygon hihg mast with Single / Multiple of bottom dia 410mm and top dia 150mm with two telescopic sections having bottom piece 6.50mtrs with 3mm thick and top piece 6.50mtrs 3mm thick as per BSEN 10025 grade S 355 JO steel sheet plate for shaft suitable to withstand a wind velocity of 180kmph as per IS 875 part 3 (as per GA Drawing). Base plate having size 520mm dia, 16mm thick with 6nos. of foundation bolts M24 X 850mm long and connected accessories as per IS ISO 1461 with an average 70 microns as per IS 2629, and welded as per BS 5135 single L - seam joint. The mast, shall have two way head frame with 4nos of 190mm die cast LM -6 pulleys, steel axils, phosphorus bronze bearing bush press fitted with seperate guides for 2 runs of 5mm dia stainless steel wire rope and 5 core 2.5Sqmm EPR insulated PCP sheathed trialling power cable all are housed inside the bottoms of mast with suitable locking 250 x 950mm hinged door. The mast shall have power tool having 0.5HP, 415 V, 50Hz, 3-Phases reversible 960RPM geared motor mast. The mast shall have land turn of 2 segments, 2150mm dia with max load of 250kgs carrying capacity as per IS 1239. The mast shall be erected on existing 1600mm depth of shallow shaft RCC footing. The mast shall be supplied with 3mm thick template, lightning arrester of 1.2m length galvanized pipe with top arrow will be fitted at top of the head frame cover and GLS type aviation twin lamps fitting with wiring complete, excluding foundation) as per technical data. (PWD BCESR 2014-15. P-36, I-5.17.2)								
	Not Operated								
162	Supplying High pressure 400 Watts Metal halide flood light luminary suitable for use with high pressure metal halide lamp with integrated control gear. The fitting shall be non-corrosive high pressure die cast aluminium housing powder coated with toughened and heat resistant glass with low copper content black/grey powder coated paint finish with EPDM gasket. Reflector shall be made of high purity pre-anodized aluminium. Cable entry through a cable gland with toggle clips. IP 65 protection for both and optical and electrical compartment. Bottom cover may be with polycarbonate / tempered / toughened glass. Luminaire efficiency should be >60% and ambient temperature >35 deg C. High intensity discharge Electro magnetic ballast with copper winding of Octocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety and IEC 60923-performance. Winding temperature for HID ballast tw = 130 deg C and temperature rise ?T - 70 deg C. Luminaire shall be suitable to operate on 230/250 Volts 50Hz AC supply finish including wiring, ignitor,condensor. SS toggles for opening front hingeable glass, prewir ed to terminal block (PWD BCESR 2014-15. P-23, I-4.18.3) 8arms x 1nos of each arm=8nos								
	Not Operated								
163	KSRB 4-4.1 : Extra for use of water proofing compound in Cement concrete of mix M25.at one kg of compound per bag of cement. Specification No. KBS (P W D BCSR. 2014-15, P-14, I-4.24)								
	Not Operated								
164	KSRB 15.3.3Providing 12mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(P W D BCSR. 2014-15, P-109, I-15.11)								
	Not Operated								

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SL No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
165	KSRB15-4.1 Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:3, 12mm thick cost of materials complete as per specifications. (P W D BCSR. 2014-15,P-110, I-15.23)								
	Not Operated								
166	KSRB 12-6.3 : Providing cast iron footrest and fixing in manhole with M10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 12.4.6 (P W D BCSR. 2014-15 P-70, I-11.46)								
	Not Operated								
167	Manhole cover PWD BCSR 2012-13 P-XXXVIII, 18" x 24" 38kg								
	Not Operated								
168	KSRB13-3.4: Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 32mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6 (P W D BCSR. 2014-15 P-87, I-13.13)								
	Not Operated								
169	KSRB13-4.1 : Making connection of G.I distribution branch with G.I main of 25 to 40mm. nominal bore, including cutting and threading the pipes, providing and fixing Tee, nuts, labour for all item of works, testing and HOM of equipments complete as per specifications. Specification No.KBS 13.10 (P W D BCSR. 2014-15,P-88, I-13.20)								
	Not Operated								
170	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. (P W D BCSR. 2014-15, P-92, I-13.81.1)								
	Not Operated								
171	Supply and delivery at site brand new MONOBLOCK type-MB series single phase motor suguna / innoval / Lubi / Sabar / Atlanta / Calamal / make suitable for sump tankg to suitable HP suitable speed for operation of 3HP/2.2KW AC supply fitted with required accessories such as suction, Non-Return valve etc., complete. (P W D BCSR 2014-15, P-XXXXV I-1,)								
	Not Operated								
172	Supply push button operated direct online starter with an antiweld silver cadmium oxide contactor with replaceable fixed and moving contacts and bimetallic thermal overload relay help in anticorrosion treated sheet steel or iron clad enclosure and fixing the same to suitable capacity wires for 400/440 volts 3 phase motor/single phase motor upto 5 HP. (P W D ESR 2014-15, P-44, I-6.1,)								
	Not Operated								
173	Supplying and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs srews 20" X 20" X 2.5" (P W D ESR 2014-15, P-44 I-6.6.6)								
	Not Operated								

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Sl. No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
174	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 100Amps (P W D ESR 2014-15, P-45 I-6.7.1)								
	Not Operated								
175	KSRB 5.4-3:Providing and constructing granite / trap / basalt SSM in superstructure with CM 1:4, edges of stones are chistle dressed in courses not less than 15 cms high, bond stones at 2 m apart in each course including cost of all materials, labour,curing complete as per Specifications No. KBS 5.1.13. (P W D BCSR 2014-15 P-23, I-5.12)								
	Not Operated								
176	KSRB 5-6 : Extra for constructing stone masonry in square or rectangular pillars complete as per specifications. (P W D BCSR 2014-15 P-24, I-5.15)								
	Not Operated								
177	KSRB 5-8.3 : Providing three line dressing to granite stone slab as per specifications (P W D BCSR 2014-15 P-24, I-5.19)								
	Not Operated								
178	KSRB 5-9 : Providing chamfering edges to granite stone slab 2.5cms. Wide as per specifications (only chamfered length shall be recorded) (P W D BCSR 2014-15 P-24, I-5.22)								
	Not Operated								
179	Fabricating, providing and erecting in poiston of Hot dip galvanised M.S.Ornamental security Grill Gate using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for suqare bars of full height and at 8cms C / C for bottom rods providg ornamental C I Designers at the botom and C I arrows in the middle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drillling holes. the work includes providng two coats of enamel painting over one coat of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes etc as per specification and drawings. (P W D BCSR 2014-15 P-46, I-7.32) 50 kg/sqm								
	Not Operated								
180	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P W D BCSR. 2014-15,P-25, I-5.27)								
	Not Operated								
181	KSRB 5.4-4:Providing and constructing granite / trap / basalt SSM in superstructure with CM 1:4, edges of stones are chistle dressed in courses not less than 15 cms high, bond stones at 2 m apart in each course including cost of all materials, labour,curing complete as per Specifications No. KBS 5.1.13. (P W D BCSR 2014-15 P-23, I-5.13) KSRB 5-5 : Extra lift charges for size stone masonry above ground floor for every additional floor. As directed by the engineer in charge								
	Not Operated								

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SL No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
182	Providing and layinglfixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification.As directed by the engineer in charge								
	Not Operated								
	Extra Items of works								
EI-1	Dewatering by mechanical means using 5 HP diesel pump including hire charges of machinery, fuel and crew charges etc., complete as per the direction of the Engineer- in charge of work								
	considering 8hr/day = 30days x 8hrs x 4 pumps/day =960 hrs	Hour					960.00	152.63	1,46,527.14
EI-2	Excavation and **removal of silt or silt** mixed with sand in **slushy condition** from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with initial lead up to **15 km and all lifts.**								
	For removal and disposal of slush in approx 21 acres	cum	1	84966	0.30		**25489.80**	345.12	87,97,132.30
EI-3	De-silting tank bed/ Feeder channel in dry condition by excavating the deposited bed material and disposing off the same as directed including cost of all machinery, labour etc., complete with lead up to 1 km and all lifts.								
	De-silting tank bed		1	293000	0.90		263700.00		
	stripping for bund						6000.00		
		cum					**269700.00**	69.09	1,86,33,168.45
EI-4	Extra lead for dumping the excavated quantity of silt to dump yard upto 10 Km as per the directions of the engineer in charge of work								
	For disposal of extra silt	cum					**40000.00**	90.24	36,09,608.40
EI-5	Extra lead for dumping the excavated quantity of silt to dump yard upto 15 Km as per the directions of the engineer in charge of work								
	For disposal of extra silt	cum					**19000.00**	138.60	26,33,441.04
EI-6	Providing new embankment abutting to existing bund to strength the existing bund using soil available in adjacent area in layers of 200 to 250 mm and compacting each layer to density control of not less than 95 percent by vibrating plate compactor or pneumatic tamper including cost of all materials, machinery, labour, picking previous layer, spreading soil in layer, breaking clods, watering etc., complete with lead up to 50 m and all lifts.								
	For main bund, ring bund & wetland bund	cum					45000.00		
	For Islands	cum					2500.00		
		cum					**47500.00**	126.49	60,08,042.25

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SL No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
EI-7	Excavation for foundation in all kinds of soil including boulders up to 0.60 m dia (0.113 cum) for dam, barrage, spillway, intake structure and other appurtenant works and placing the excavated soil neatly in dump area or disposing off the same as directed etc., complete with initial lead up to 1 km and all lifts.								
	For Toe wall								
	Main bund	cum	1	386.00	0.60	0.60	138.96		
	Ring bund	cum	1	515.00	0.60	0.60	185.40		
	Island-1	cum	1	215.00	0.60	0.30	38.70		
	Island-2	cum	1	202.00	0.60	0.30	36.36		
	Wetland bund	cum	2	179.00	0.60	0.30	64.44		
		cum	1	94.20	0.60	0.30	16.96		
		cum	1	66.15	0.60	0.30	11.91		
		cum	1	27.25	0.60	0.30	4.91		
		cum	1	18.85	0.60	0.30	3.39		
	for Island-1 inside wetland	cum	1	23.00	0.60	0.30	4.14		
	for Island-2 inside wetland	cum	1	43.50	0.60	0.30	7.83		
	For Templates								
	Main bund	cum	27	6.50	0.45	0.375	29.62		
	Island-1	cum	14	4.00	0.45	0.375	9.45		
	Island-2	cum	13	5.00	0.45	0.375	10.97		
	Wetland bund	cum	29	3.40	0.45	0.375	16.64		
	for Island-1 inside wetland	cum	3	2.50	0.45	0.375	1.27		
	for Island-2 inside wetland	cum	6	3.50	0.45	0.375	3.54		
	For Kerbs	cum	2	620.00	0.20	0.30	74.40		
							658.87	79.72	52,523.75
EI-8	Providing and laying **Pitching on slopes** laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical specifications A. Stone / Boulder								
	Main bund	cum	1	386.00	6.50	0.45	1129.05		
	Ring bund	cum	1	490.00	1.00	0.45	220.50		
	Island-1	cum	1	215.00	4.00	0.45	387.00		
	Island-2	cum	1	202.00	5.00	0.45	454.50		
	Wetland bund	cum	1	288.00	3.30	0.45	427.68		
		cum	1	27.25	3.90	0.45	47.82		
		cum	1	18.85	3.70	0.45	31.39		
		cum	1	45.00	3.00	0.45	60.75		
	for Island-1 inside wetland	cum	1	23.00	2.50	0.45	25.88		
	for Island-2 inside wetland	cum	1	43.50	3.40	0.45	66.56		
							2851.12	1407.22	40,12,139.78
EI-9	Providing and constructing rock fill embankment with 300 mm downgraded stones and quarry spalls from approved source including cost of all materials, machinery, labour, spreading stones and spalls in layers, hand packing, wedging, finishing the surface to required slopes etc., complete with initial lead up to 20 km and all lifts								
	For wetland bund	cum	2	15	5.00	3.00	**450.00**	695.99	3,13,194.11

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SL No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
EI-10	Providing and fixing pre cast **solid cement concrete kerb stones made out of C.C. 1 :2:4** with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading,lead and lift, transportation etc., complete.								
	For Park area	nos	2	620			2756.00	334.62	9,22,218.72
EI-11	Providing casing embankment using semi-pervious soil from approved borrow areas in layers of 250 to 300 mm before compaction including cost of all materials, machinery, labour, all other operations such as excavation, sorting out, transportation, spreading soil to specified thickness, breaking clods, sectioning, watering, compacting to density control of not less than 95 percent using power roller etc., complete with lead up to 35 km and all lifts. (Hosakote Gravel)								
	For Park area	cum	1	620.00	3.00	0.25	465.00	486.70	2,26,316.39
EI-12	Providing and laying Hariyala or other approved quality turfing sods for the slopes of earthen embankments over 20 mm thick sand backing including cost of all materials, machinery, labour including preparing surface, spreading sand including tamping, watering for 15 days etc., complete with lead up to 15 km and all lifts.								
	For Park area	Sqm	1	400.00	6.00		2400.00	132.33	3,17,594.52
								SUB-TOTAL	52055517.55
								LS	2844.68
								TOTAL AMOUNT	52058362.23

Assistant Engineer
Lakes, BBMP

Assistant Executive Engineer
Lakes, BBMP

Executive Engineer
Lakes, BBMP

Chief Engineer
Lakes, BBMP

Technically sanctioned for Rs. 5,20,58,362.23

Rs. Five hundred twenty Lakhs fifty eight thousand three hundred sixty two & twenty three only

Registered as CE/SE/EE No. TS-25/2016-17

Subject to conditions contained in enclosed Memo No. TS-25/2016-17 Date: 16/08/2016

JE/AE

EE/SE/CE

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